

The next phase in STARBASE STEM outreach!



STARBASE 2.0 OVERVIEW

- **Investigate**

Conduct experiments in topics such as Newton's Laws, engineering design process, aerodynamics and much more!

- **Innovate**

Use computer aided design (CAD) software to develop and manufacture projects on 3D printers!

- **Collaborate**

Work as a team to complete an engineering design project and compete against peers for top prizes!

- **Celebrate**

Acknowledge success, creativity, perseverance, and teamwork with the completion of engineering projects!

CONTINUING OUR MISSION OF PREPARING THE NEXT GENERATION TO ENTER THE 21ST CENTURY WORKFORCE.

STARBASE 2.0 is a multi-year creative immersion in STEM (Science, Technology, Engineering, and Mathematics) concepts through hands-on science and engineering activities and projects. STARBASE 2.0 participants explore what it means to be an engineer, experiencing the entire process from the design and manufacture of their prototype to its testing and redesign. Participants will use their scientific reasoning to make design decisions in collaborative projects. STARBASE Louisiana brings its materials and staff to participating schools, along with STEM mentors from the Barksdale and Shreveport-Bossier communities. Together we encourage students' STEM exploration and seek to deepen their understanding of the topics explored.

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RESPONSIBILITIES OF MENTORS



- Serve approximately 1.5 hours two days a month, depending upon the commitment level you select
- Work closely with small group of about 4 students
- Encourage and motivate participants
- Assist with STEM investigations by giving real-life examples



There are many options to fit your schedule and preferences:

- in-school or afterschool
- weekly or biweekly
middle or high school

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THE ROLE OF MENTORS

Our mentors form a relationship with a small group of students who rely on their presence, dedication, and encouragement as they complete their investigations. A strong mentor presence enriches the program and increases students' interest by helping them make connections between academic concepts and the real world. Research demonstrates the benefit of having STEM professionals serving as positive role models in the lives of young adults.

Source: *The Mentoring Effect*-<http://www.mentoring.org>

